

ABSTRACT

A tire ply forming apparatus includes: a roller mechanism for unwinding a narrow ribbon-shaped ply cord from a roll of the ply cord as conveying the unwound ply cord; a cutter for cutting the unwound ply cord into the strip of a length conforming to a tire width; a bonding drum on which the strips are sequentially bonded to each other along a predetermined direction and at a predetermined pitch; transfer device for transporting the strip from a cutting position to the bonding drum; controller for driving-wise controlling the bonding drum to permit the strips to be bonded to each other in a manner that the strips are overlapped with each other to form a predetermined amount of overlap at their longitudinal edges; and a pressure roller for pressing down on the overlap portion of the strips.